FUTURE FISHERIES IMPROVEMENT PROGRAM
GRANT APPLICATION
(please fill in the highlighted areas)

RECEIVED
JUN 14 2011
FISHERIES DIV.
FISH, WILDLIFE & PARKS

I. APPLICANT INFORMATION

A. Applicant Name: Bitterroot National Forest

B. Mailing Address: 88 Main St

C. City: Stevensville State: MT Zip: 59870

Telephone: 406-777-7425

D. Contact Person: Robert Brassfield - Fisheries Biologist

Address if different from Applicant:

City: State: Zip:

Telephone: 406-777-7425

E. Landowner and/or Lessee Name (if other than Applicant):

Mailing Address:

City: State: Zip:

Telephone:

II. PROJECT INFORMATION*

A. Project Name: Skalkaho Culvert Replacement

River, stream, or lake: Skalkaho Creek, tributary to Bitterroot River

Location: Township 4N Range 18W Section 4

County: Ravalli

B. Purpose of Project:

This culvert is proposed to be replaced with a bridge. A survey and design are about 90% complete. A bridge is the preferred structure at this time. Preliminary cost estimate is approximately $160,000. There are no road crossings upstream of this project site in Skalkaho Creek. Therefore the benefits of this project are not contingent on other projects upstream.

C. Brief Project Description:

This project is located on the Bitterroot National Forest in Ravalli County, Montana, roughly nine miles ESE of Hamilton, Montana (Map 1). The project area is the Bitterroot National Forest Road 75 crossing of Skalkaho Creek (Map 2). The existing crossing structure is a 102 –inch wide X 72-inch tall squashed steel culvert. The Road 75 culvert is located about 4.4 miles upstream from the junction of Skalkaho and Daly creeks (Map 2). The legal location of the culvert is T 4N, R18W, Section 4. The latitude is 46° 7'25.7"N", and longitude is 113°51'6.2"W".

Skalkaho Creek at this point in the drainage is a 3rd order stream. This site is approximately 20.5 river-miles upstream of the Bitterroot River. The project area of Skalkaho Creek is an important spawning and rearing tributary for resident bull trout and westslope cutthroat trout. In the last decade investments have included siphons and fish screens downstream on private lands to keep Skalkaho fish in the stream and headed to the Bitterroot River. Studies are ongoing to determine the contribution of the resident populations to the Bitterroot River (pers. comm. Chris Clancy, July 2010) .

A 2004 survey found that the width of the pipe only accounted for 44% of the bankfull width. There is about a 1 foot leap for fish to enter the pipe and the pipe is fairly flat. So during low and moderate flows fish that can leap into the pipe can probably pass through it. However during spring and early summer high flow, when cutthroat trout and some bull trout tend to move upstream, the stream rushes through the culvert at speeds that make passage very unlikely. The power of high flows is also shown by the lack of stream substrate within the relatively flat culvert and the large pool formed at the culvert outlet.

D. Length of stream or size of lake that will be treated: There are about 4 miles of bull trout habitat upstream and 5 miles of cutthroat habitat.

E. Project Budget:

Grant Request (Dollars): **$ 5000**

Contribution by Applicant (Dollars): $ 135,000 In-kind $
(salaries of government employees are not considered as matching contributions)

Contribution from other Sources (Dollars): $ 20,000 (requested from RAC) In-kind $
(attach verification - See page 2 budget template)

Total Project Cost: **$ 160,000**

F. Attach itemized (line item) budget – see template

G. Attach specific project plans, detailed sketches, plan views, photographs, maps, evidence of landowner consent, evidence of public support, and/or other information necessary to evaluate the merits of the project. If project involves water leasing or water salvage complete supplemental questionnaire (fwp.mt.gov/habitat/futurefisheries/supplement2.doc).

H. Attach land management and maintenance plans that will ensure protection of the reclaimed area.

III. PROJECT BENEFITS*

A. What species of fish will benefit from this project?:

Westslope cutthroat trout and bull trout.

B. How will the project protect or enhance wild fish habitat?:

Allows passage of fish and other aquatic organisms

C. Will the project improve fish populations and/or fishing? To what extent?:

Yes. At a recent presentation to the Ravalli County RAC on of the member recalled that this area was one of his elderly relatives favorite fishing sites. He strongly supported the project, and claimed that the RAC would surely provide some funding to show their support, but maybe less than the request of $20k because of the number and quality of competing projects.

There are about 4 miles of bull trout habitat and 5 miles of cutthroat habitat upstream. The area above the culvert is used for spawning and rearing.

D. Will the project increase public fishing opportunity for wild fish and, if so, how?:

See above.

E. If the project requires maintenance, what is your time commitment to this project?:

Very little maintenance is expected. The new bridge would greatly reduce the chances of the stream washing-out the road around the crossing.

F. What was the cause of habitat degradation in the area of this project and how will the project correct the cause?:

Installation of the existing structure accounted for passing water under the roadway, but designs of that era did not account for the seasonal needs of fish and other aquatic species. The proposed bridge would allow fish passage that is very similar to the natural stream.

G. What public benefits will be realized from this project?:

Benefits include Improved fish passage while maintaining access into the Bitterroot National Forest for recreation and other uses.

H. Will the project interfere with water or property rights of adjacent landowners? (explain):

The entire area is public lands.

I. Will the project result in the development of commercial recreational use on the site?: (explain):

No, no further expansion of recreational uses are planned for the area at this time.

J. Is this project associated with the reclamation of past mining activity?:

No.

Each approved project sponsor must enter into a written agreement with the Department specifying terms and duration of the project.

IV. AUTHORIZING STATEMENT

I (we) hereby declare that the information and all statements to this application are true, complete, and accurate to the best of my (our) knowledge and that the project or activity complies with rules of the Future Fisheries Improvement Program.

Applicant Signature: Robert J Brumfield Date: 6/1/11

Sponsor (if applicable):

***Highlighted boxes will automatically expand.**

Mail To:

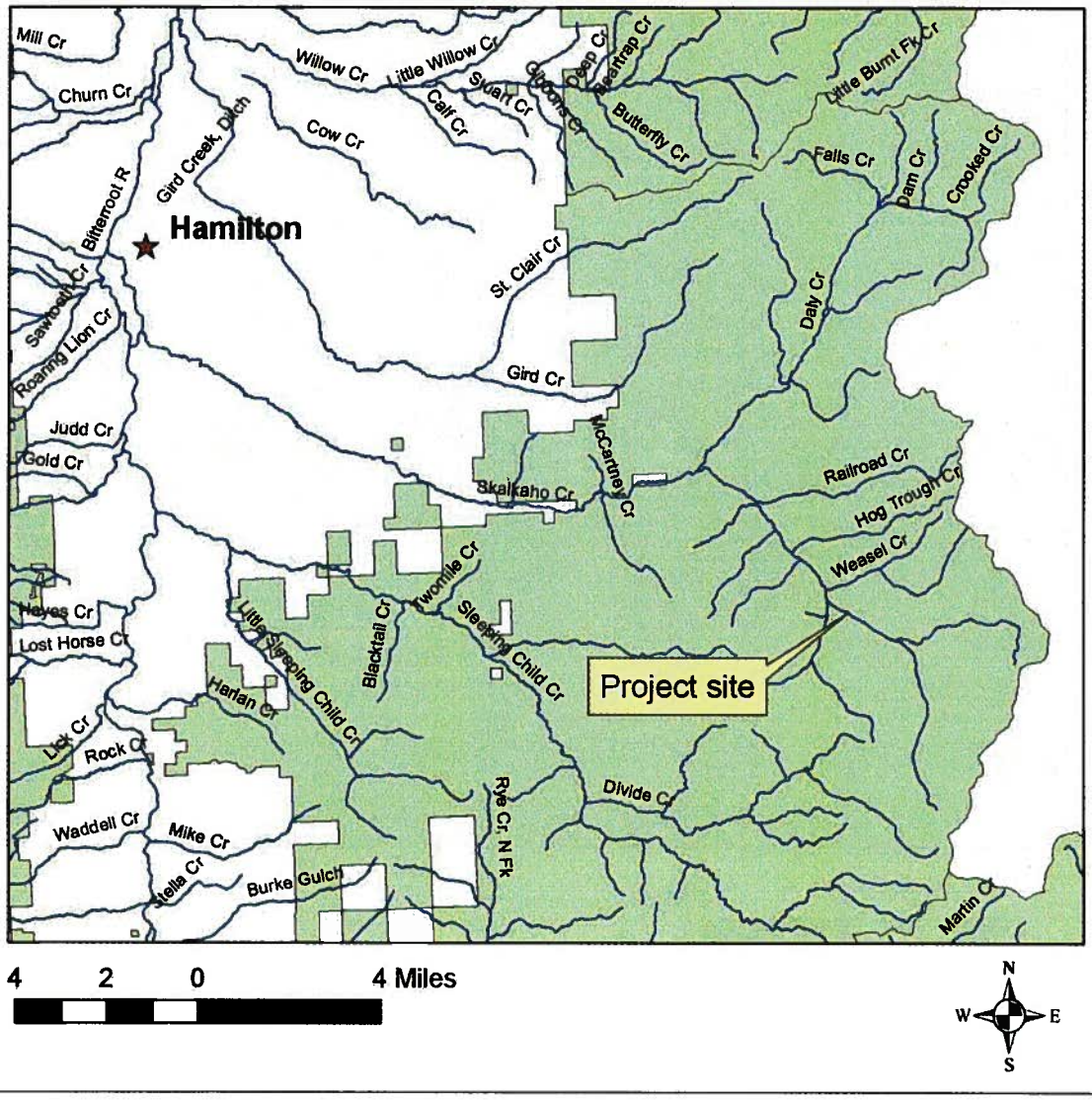
Montana Fish, Wildlife & Parks
Habitat Protection Bureau
PO Box 200701
Helena, MT 59620-0701

Incomplete or late applications will be returned to applicant.

Applications may be rejected if this form is modified.

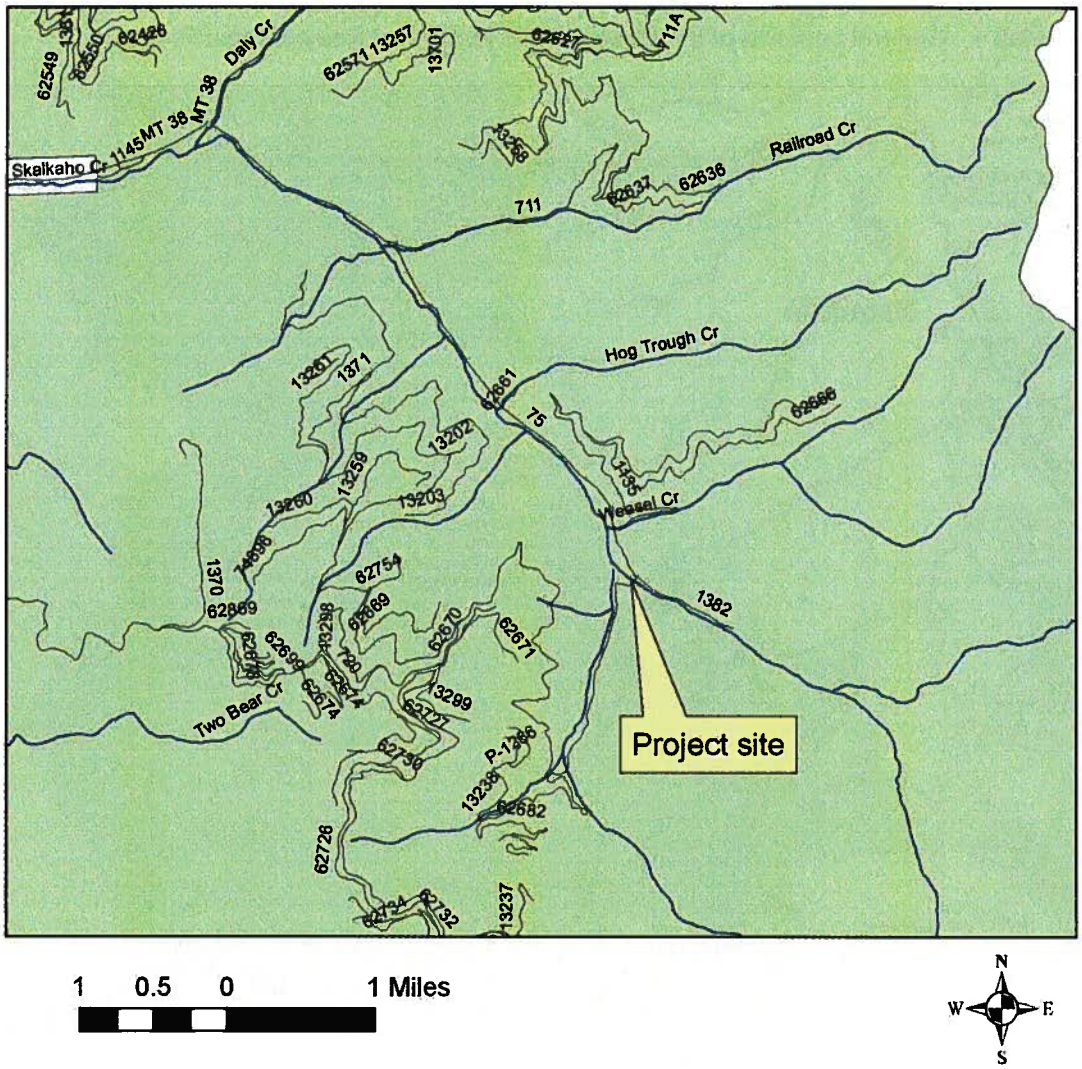
*****Applications may be submitted at anytime, but must be received by the Future Fisheries Program office in Helena before December 1 and June 1 of each year to be considered for the subsequent funding period.*****

Map 1. General Location of the Skalkaho Rd 75 Culvert Replacement Project.



Revised August 5, 2009

Map 2. A closer look at the location of the Skalkaho Rd 75 Culvert Replacement Project.



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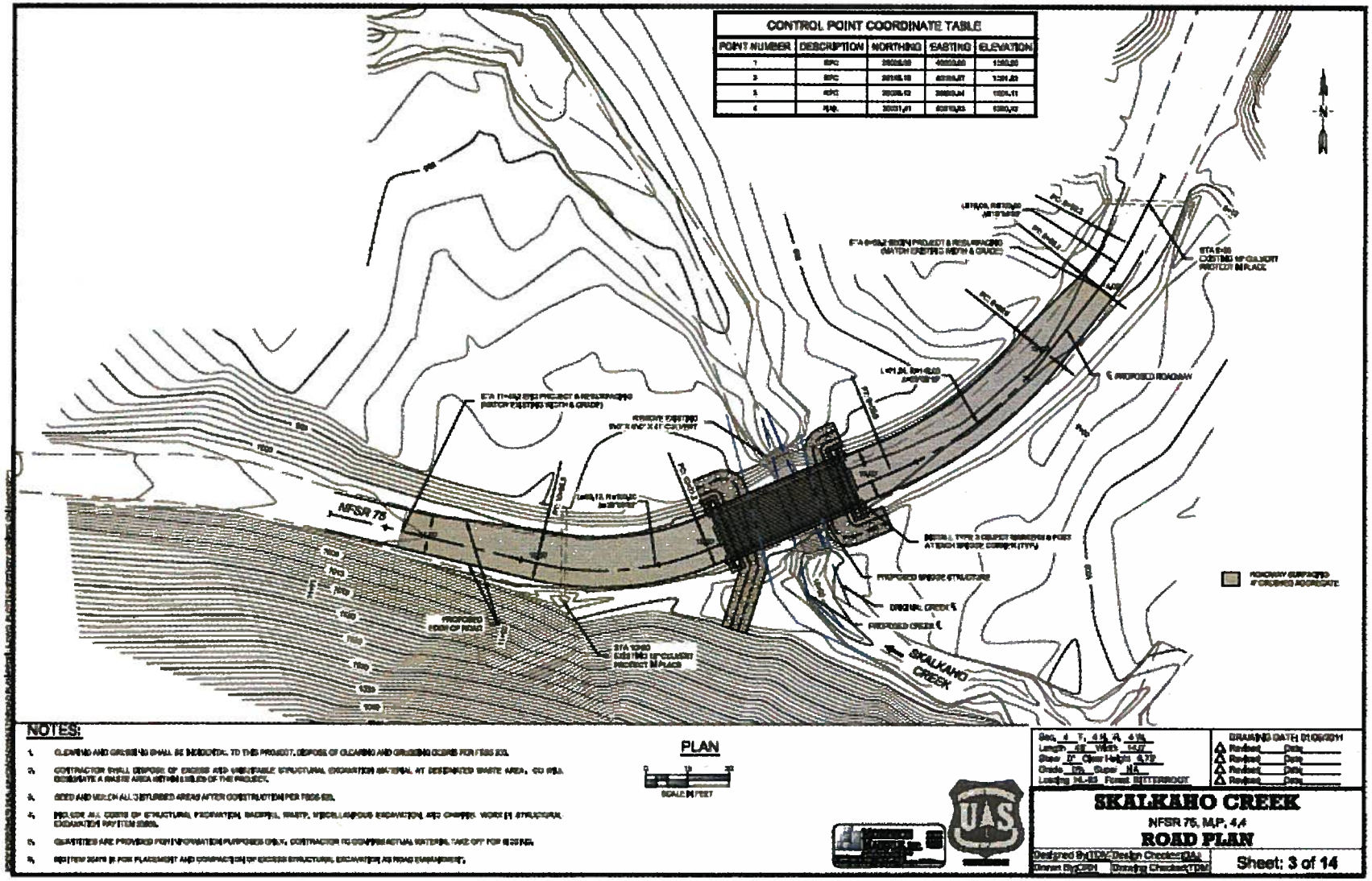

BUDGET TEMPLATE SHEET FOR FUTURE FISHERIES PROGRAM APPLICATIONS
(Revised 6/9/2011)

WORK ITEMS (ITEMIZE BY CATEGORY)	NUMBER OF UNITS	UNIT DESCRIPTION*	COST/UNIT	TOTAL COST	CONTRIBUTIONS			
					FUTURE FISHERIES REQUEST	IN-KIND SERVICES	IN-KIND CASH	TOTAL
Personnel								
Survey		Lump sum		$ 6,000.00			6,000.00	$ 6,000.00
Design		Lump sum		$ 7,000.00			7,000.00	$ 7,000.00
Engineering		Lump sum		$ 7,000.00			7,000.00	$ 7,000.00
Permitting				$ -				$ -
Oversight		Lump sum		$ 3,000.00			3,000.00	$ 3,000.00
Labor				$ -				$ -
				$ -				$ -
Travel								
Mileage				$ -				$ -
Per diem				$ -				$ -
Construction Materials								
See Attached		Lump sum		$ 160,000.00	5,000.00		155,000.00	$ 160,000.00
				$ -				$ -
				$ -				$ -
				$ -				$ -
				$ -				$ -
				$ -				$ -
				$ -				$ -
				$ -				$ -
				$ -				$ -
				$ -				$ -
Equipment								
Included Above				$ -				$ -
				$ -				$ -
				$ -				$ -
				$ -				$ -
				$ -				$ -
				$ -				$ -
				$ -				$ -
Mobilization								
Included Above				$ -				$ -
				$ -				$ -
				$ -				$ -
				$ -				$ -
				$ -				$ -
			TOTALS	$ 183,000.00	$ 5,000.00	$ -	$ 178,000.00	$ 183,000.00

BUDGET TEMPLATE SHEET FOR FUTURE FISHERIES PROGRAM APPLICATIONS
(Revised 6/9/2011)

*Units = feet, hours, inches, lump sum, etc.

MATCHING CONTRIBUTIONS

CONTRIBUTOR	IN-KIND SERVICE	IN-KIND CASH	TOTAL
Bitterroot National Forest	$ -	$ 135,000.00	$ 135,000.00
Ravalli Resource Advisory Committee (requested)	$ -	$ 20,000.00	$ 20,000.00
Future Fisheries (this request)	$ -	$ 5,000.00	$ 5,000.00
	$ -	$ -	$ -
	$ -	$ -	$ -
	$ -	$ -	$ -
	$ -	$ -	$ -
	$ -	$ -	$ -
	$ -	$ -	$ -
	$ -	$ -	$ -

This is an Engineer Estimate. It is consdiered slightly low at this time. Current estimate is closer to $160,000.

SKALKAHO CREEK
ENGINEER'S ESTIMATE
PROPOSED BOTTOMLESS CULVERT

2/28/2011

SUMMARY OF QUANTITIES

Pay Item	Description	Method of Measurement	Unit	Quantity	Cost Per Unit	Item Cost
15101	Mobilization	LSQ	LS	1	$13,047.60	$13,048
15201	Construction Survey and Staking	LSQ	LS	1	$1,250.00	$1,250
15713	Soil and Erosion Control	LSQ	LS	1	$1,500.00	$1,500
20304	Removal of Culvert, Disposal Method (a)	LSQ	LS	1	$1,500.00	$1,500
20478	Roadway Excavation and Embankment	CQ	CY	272	$10.00	$2,720
20806	Structure Excavation	LSQ	LS	1	$2,651.00	$2,651
25101a	Placed Riprap, Class 5	CQ	CY	169	$75.00	$12,675
27250	Geocell Abutment Stabilization, 6 inch depth	CQ	SY	32	$125.00	$4,000
30801	Roadway Aggregate, Compaction Method 2	CQ	CY	32	$50.00	$1,600
553A05	Precast Concrete Member - Grade Beams	LSQ	LS	1	$15,000.00	$15,000
55703	Treated Structural Timber & Lumber	CQ	MBF	9.2	$2,000.00	$18,400
55705	Treated Structural Timber, Glued-Laminated	CQ	MBF	12.5	$6,000.00	$75,000
62201a	Equipment Rental, Hydraulic Excavator	AQ	HR	12	$135.00	$1,620
62201b	Equipment Rental, Dump Truck	AQ	HR	12	$100.00	$1,200
62528	Seeding, Fertilizing, and Mulching Dry Method	LSQ	LS	1	$1,500.00	$1,500
63305	Posts, Wood	CQ	LF	35	$10.00	$350
63306	Object Markers, Type 3	AQ	EACH	4	$75.00	$300
					Total	$143,523.60

Revised August 5, 2009